To: Terry, Robert[Terry.Robert@epa.gov]

From: LEE, LILY

**Sent:** Fri 2/26/2016 10:02:55 PM

Subject: 2006 release criteria - would they meet current requirements?

Hunters Pt Basewide Rad 2006 release criteria table.pdf HP Basewide Rad Removal Action Memo (00000002).pdf

Dear Rob,

Attached are the complete 2006 Hunters Pt Basewide Rad Removal Action Memo and the release criteria table that I excerpted from the full document. Below is an example of a ROD that references the same release criteria, but specific to Parcel B.

How would you translate these criteria to risk? Would these criteria still result in cleanups within the EPA risk range using current EPA approaches?

## TABLE 8-4: REMEDIATION GOALS FOR RADIOLOGICALLY IMPA AND GROUNDWATER

Parcel B Amended Record of Decision, Hunters Point Shipyard, San

Remediation Goals for Radionu					
	Surfaces (dpm/100cm <sup>2</sup> )				
Radionuclide	Equipment, Waste <sup>a</sup>	Structures <sup>b</sup>	Constructio Worker		
Cesium-137	5,000	5,000	0.113		
Cobalt-60	5,000	5,000	0.0602		
Plutonium-239	100	100	14.0		
Radium-226	100	100	1.0 <sup>d</sup>		
Strontium-90	1,000	1,000	10.8		

## Notes:

а	Based on "AEC Regulatory Guide 1.86" (1974). Goals for removable surface
b	Goals are based on 25 millirem per year (EPA does not believe this NRC regenvironment, and the HPS cleanup goals are more protective. This regulation sites that are undergoing TCRAs and any additional remedial action required radiologically impacted portions of IR Sites 7 and 18 that will be transferred variational contaminants.)
_	FPA PRGs for two future use scenarios

- EPA PRGs for two future use scenarios
- Goal is 1 pCi/g above background per agreement with EPA d
- Release criteria for water were derived from "Radionuclides Notice of Data A е by comparing the limits from two criteria and using the most conservative val
- Goal is for total radium concentration f
- Also applies to scanned surface soil at IR Sites 7 and 18 g

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AEC	Atomic Energy Commission	IR	in:
ARAR	Applicable or relevant and appropriate requirement	NRC	Nι
cm <sup>2</sup>	square centimeter	pCi/g	pic
dpm	disintegration per minute	pCi/L	pic
EPA	U.S. Environmental Protection Agency	PRG	Pr

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